

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-4 (cancelled).

Claim 5 (currently amended). A method of handling telephone signals supplied by an analog telephone set and data supplied by a data terminal in the subscriber line circuit of a digital telephone switching system used at least in subregions for data transmission, which comprises:

connecting a telephone set and a data terminal to a subscriber line circuit of a digital telephone switching system through a common analog subscriber line;

subjecting data outgoing to the digital telephone switching system to an analog/digital conversion at a sampling rate above a sampling rate required for telephone information ~~causing the data originating from~~ such that the data originating from the data terminal ~~to~~ is not ~~be~~ subject to the same restrictions as the signals originating from the analog telephone set; and

according to a digital coding to analog conversion, data incoming from the digital telephone switching system using a linear characteristic; and feeding data originating from and handled by the data terminal directly to a data transmission network.

Claim 6 (previously presented). The method according to claim 5, which further comprises modulating data signals supplied for transmission on the subscriber line at a frequency above a frequency band authorized for transmission of telephone signals.

Claim 7 (currently amended). A subscriber line circuit for handling telephone signals supplied by an analog telephone set and data supplied by a data terminal in a subscriber line circuit of a digital telephone switching system used at least in subregions for data transmission, comprising:

a telephone set for producing telephone signals;

a data terminal having a modem for producing data signals;

an analog subscriber line, said telephone set (Tela, Telb) and said data terminal directly connected to a subscriber line

circuit of a digital telephone switching system through said analog subscriber line;

an analog/digital converter having a sampling rate above a sampling rate required for telephone information, said analog/digital converter:

connected to said telephone set and said data terminal;

receiving said telephone signals and said data signals;
and

producing digital signals according to the sampling rate ~~causing the data originating from~~ such that the data originating from the data terminal ~~to~~ is not ~~be~~ subject to the same restrictions as the signals originating from the analog telephone set; and

a digital signal processor reducing signals incoming from the digital telephone switching system to a transmission bit rate for telephone transmission and simultaneously coding said telephone signals according to a nonlinear characteristic.

Claim 8 (original) The subscriber line circuit according to claim 7, wherein said digital signal processor emits digital signals, and including:

a data network; and

a digital interface connected to said digital signal processor, said digital interface:

conveying digital signals representing data signals emitted by said

digital signal processor to said data network; and

conveying to said digital signal processor digital signals coming from said data network intended for said data terminal.

Claim 9 (currently amended). In a digital telephone switching system used at least in subregions for data transmission, a subscriber line circuit, comprising:

a telephone set for producing telephone signals;

a data terminal having a modem for producing data signals;

an analog subscriber line, said telephone set and said data terminal directly connected to the digital telephone switching system through said analog subscriber line;

an analog/digital converter having a sampling rate above a sampling rate required for telephone information, said analog/digital converter:

connected to said telephone set and said data terminal;

receiving said telephone signals and said data signals; and

producing digital signals; and

a digital signal processor reducing signals incoming from the digital telephone switching system to a transmission bit rate for telephone transmission and simultaneously coding said telephone signals according to a nonlinear characteristic ~~causing the data originating from~~ such that the data originating from the data terminal ~~to~~ is not ~~be~~ subject to the same restrictions as the signals originating from the analog telephone set.

Claim 10 (original). The subscriber line circuit according to claim 9, wherein said digital signal processor emits digital signals, and including:

a data network; and

a digital interface connected to said digital signal processor, said digital interface:

conveying digital signals representing data signals emitted by
said digital signal processor to said data network; and

conveying to said digital signal processor digital signals coming
from said data network intended for said data terminal.

Claim 11 (new). The method of handling telephone signals
according to claim 5, which further comprises using a linear
analog/digital conversion characteristic such that the data
originating from the data terminal is not subject to the same
restrictions as the signals originating from the analog
telephone set.

Claim 12 (new). The subscriber line circuit according to
claim 7, wherein the digital signals use a linear
analog/digital conversion characteristic such that the data
originating from the data terminal is not subject to the same
restrictions as the signals originating from the analog
telephone set.

Claim 13 (currently amended). The digital telephone switching
system according to claim 9, wherein the telephone signals are
coded also using a linear characteristic for the data
originating from the data terminal such that the data
originating from the data terminal is not subject to the same

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restrictions as the signals originating from the analog
telephone set.